

# ANNUAL REPORT River Sand Mining in Kerala: 2023-2024

(As per the Judgment of Hon'ble National Green Tribunal, Principal Bench, ND in OA No.360/2015, 456, 726/2018 and others Case dated 26.02.2021)



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#### **EXECUTIVE SUMMARY**

Hon'ble National Green Tribunal, Principal Bench, ND in the Judgment dated 26.02.2021 vide OA No.360/2015, 456, 726/2018 and Others, ordered to take strict action against illegal, unscientific mining of sand in the country. The Hon'ble NGT has directed all States/UTs to publish their Annual Reports covering actions taken against illegal sand mining and such annual reports need to be furnished to MoEF&CC by 30th April every year giving status till 31st March. In this context, the meeting held by the Chief Secretary, Government of Kerala on 20.04.2021 decided to entrust the Institute of Land and Disaster Management (ILDM), Thiruvananthapuram with the task of preparing the Annual Report in consultation with the Commissioner of Land Revenue and the Department of Environment. Therefore, ILDM has prepared a detailed questionnaire, collected relevant data from all districts, and prepared the Annual Report for the year 2023-2024.

Sand Mining in Kerala is controlled and regulated by the provisions of the Kerala Protection of River Banks and Regulations on Removal of Sand Act 2001. River sand mining has been completely handled by the State Government since 2001 and no portion of the river in the State is leased out to any private parties for sand mining. A three-tier decentralized system functions in the State to protect river banks and regulate river sand mining. The State High-Level Committee (SHLC) at the State level chaired by the Revenue Minister, the District Expert Committee (DEC) at the District level chaired by the District Collector, and the Kadavu Committee at the Panchayat/Municipality/ Corporation level are the statutory monitoring systems functions in the State. Sand Mining is done by Kadavu Committees with statutory powers under the supervision of the District Expert Committee (DEC) headed by the District Collector. The District Expert Committee is reconstituted in all 14 districts as per G.O (Rt) No.133/2024/RD dated 13.06.2024 and SRO No.518/2024. Apart from this, Taluk Level Special Squads are formed and they monitor illegal sand mining 24x7 at the Taluk level. Similarly, there is a Sub-Division Level Squad function to prevent illegal sand mining activities. Station House Officers (SHOs) of the Police Department are vigilant against illegal sand mining activities in

their jurisdiction.

River Sand Mining has not been done in Kerala since 2016 for want of Environmental Clearance. The government of Kerala has entrusted CSIR-National Institute of Interdisciplinary Sciences and Technology (NIIST), with the task of preparing District Survey Report (DSR) for 11 districts in the State as part of obtaining Environmental Clearance. The DSRs of Malappuram, Thrissur, Palakkad, and Kollam Districts were approved by the State Environment Impact Assessment Authority (SEIAA). Officers of the Revenue Department not below the rank of Village Officer and Police Officers not below the rank of Station House Officer are empowered to seize vehicles, tools, and implements used in illegal mining and transportation of sand, including sand. The State Government has increased the penalty for illegal sand mining from Rs.25000/- to Rs 5 Lakh and the per day charges for continuous contravention from Rs. 1000/- to Rs.5000/- per day through the Kerala River Bank Protection and Regulations on Removal of Sand (Amendment) Act-2022. There were 327 vehicles seized against the illegal transporting of sand in Kerala from 01.04.2023 to 31.03.2024. There were 204 vehicles released this year after levying a fine. An amount of Rs. 1.96 Crore was remitted to the River Management Fund as a penalty amount levied against vehicles used in illegal sand mining. Against illegal sand mining, 425 cases were registered and an amount of Rs. 9.61 Lakh was remitted to River Management Fund from the sale of illegally mined sand after seizure and confiscation. The total penalty and fine amount remitted to River Management Fund during 2023-2024 was Rs 2.056 Crore. The existing enforcement and monitoring mechanisms were reviewed by the Chief Secretary in the high-level meeting held on 14.09.2023 and 05.02.2024.

## Chapter 1 Introduction

The river is a complex system of flowing water draining specific land areas, among the most important geomorphic features and a prime source of fresh water. Rivers face multiple environmental issues due to different forms of anthropogenic activities, of which sand mining is the most critical. Illegal sand mining without taking care of the environment is more rampant than legally regulated mining. This chapter provides an overview of the rivers of Kerala, the current sand mining scenario, and existing regulations and mechanisms to control and prevent

illegal sand mining in the State.

#### 1.1 Rivers of Kerala

Kerala is well blessed with 41 westflowing and 3 east-flowing rivers (Fig. 1). The length of the river differs from 16 km (Majewaram River) to 244 km (Periyar). The drainage basin area ranges from 52 km<sup>2</sup> (Ramapuram River) to 6186 km<sup>2</sup> (Bharatapuzha). Together with their tributaries and distributaries, these rivers are crucial for maintaining the State's biophysical environment as they flow through highlands, midlands, and lowlands across the State. Keralites ' culture, beliefs, social harmony, and economic progress are closely linked with the rivers. The main uses of river water in the State are for domestic, agricultural, and industrial purposes and the generation of hydel power.

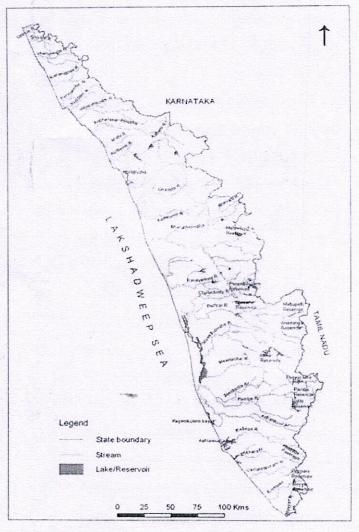


Fig. 1 Rivers of Kerala

#### 1.2 River Sand Mining in Kerala

River sand mining in Kerala is controlled, monitored, and carried out solely by the State Government. No portion of the river in the State is given on lease for sand mining by private persons. River sand mining is regulated through the provisions of the Kerala Protection of River Banks and Regulation of Removal of Sand Act 2001 (amended in 2013) and Rules 2002, the binding guidelines of MoEF&CC, and the directives of the Hon'ble NGT and the Hon'ble Supreme Court. The Hon'ble Supreme Court's judgment in Deepak Kumar Vs State of Haryana in 2012 and the provisions of EIA Notification 2006 and its Amendments are strictly followed in the State. Guidelines were also issued by the State Government for obtaining environmental clearance for river sand mining as per circular No. P3/248/18/RD dated 15.11.2018 in the context of the EIA notification 2006 and sustainable sand mining management guidelines of MoEFCC-2016.

River bed sand mining from rivers is not being done in the State of Kerala since 2016 for want of Environmental Clearance. Sand mining was done till 2015 based on the Sand Audit reports prepared based on Section 9b & 29 of the Kerala Protection of River Banks and Regulation of Removal of Sand Act 2001 (KPRBRRSA-2001) and subsequent Environmental Clearance (EC) from the State Environment Impact Assessment Authority (SEIAA) vide EC No.571/ SEIAA/ K1/4230/2014 Dated. 20.04.2015 &17.12.2015.

## 1.3 Sand Mining Monitoring and Management

Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001 envisages a three-tier decentralized system to protect river banks and regulate river sand mining in the State. The State High-Level Committee (SHLC) at the State level chaired by the Revenue Minister, District Expert Committee (DEC) at the District level chaired by the District Collector, and Kadavu Committee at the Panchayat/Municipality/Corporation level are the statutory monitoring systems function in the State.

## 1.3.1 State High-Level Committee (SHLC)

The State High-Level Committee is the apex committee constituted as per Section 2A of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001 (KPRBRRSA-2001). This is a multi-departmental committee headed by Revenue Minister with the following members.

i) The secretary to Government in charge of the Revenue Department: Convener

- ii) Law Secretary: Member
- iii) The Commissioner of Land Revenue: Member
- iv) Director of the National Centre for Earth Science Studies: Member
- v) Director, Institute of Land and Disaster Management: Member
- vi) One Additional Director General of Police to be nominated by the Government: Member
- vii) Chief Engineer of the Irrigation Department to be nominated by the Government: Member
- viii) Two Environmental Scientists to be nominated by the Government: Members
- ix) Two Environmentalists to be nominated by the Government: Members

The present State High-Level Committee (SHLC) is re-constituted as per G.O (P) 14/2017/RD dated 23.12.2017. The State High-Level Committee meetings chaired by the Revenue Minister were held on 19.09.2023, 21.02.2024, 26.02.2024, and 15.03.2024.

#### 1.3.2 District Expert Committee (DEC)

The District Expert Committee (DEC) is the district-level committee that functions as per Section 3 of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001. DEC comprises the following members.

- The District Collector -Ex-officio:
- A representative nominated by the Government from among the members of the District Panchayat representing any area abutting any river of the district;
- The District Labour Officer-Ex-officio:
- The Superintendent of Police in charge of Law and Order in the district Ex-officio;
- The Deputy Director of Panchayat-Ex-officio;
- A Municipal Chairman/Chairperson from among the Chairman/ Chairpersons or the Municipal Councils abutting any river in the district-to be nominated by the Government;
- Two persons from among the Presidents of the Grama Panchayath abutting any river in the district-to be nominated by the Government;
- One President from among the Presidents of the Block Panchayats abutting any river in the district-to be nominated by the Government;
- A Hydrologist-to be nominated by the Government;
- One Executive Engineer of the Irrigation Department working in this district;
- An engineer not below the rank of an Executive Engineer of the Kerala Water Authority working in the district -to be nominated by the Government:

- Three environmentalists associated with river protection activities- to be nominated by the Government;
- An Engineer (Roads and Bridges) of the Public Works Department, not below the rank
  of an Executive Engineer working in the district to be nominated by the Government
- The Geologist/District Officer, Department of Mining and Geology-Ex-officio;
- One Divisional Forest Officer-to be nominated by the Government.
- Revenue Divisional Officer or Revenue Divisional Officers having jurisdiction in the district.
- Three persons to be nominated by the Government from among the registered organisation of sand-removing workers of the district;
- Tahasildars of all the Taluks in the district and the Additional Tahasildars having jurisdiction concerning the regulation of sand removal in the district.

The District Collector is the chairman of DEC and the Revenue Divisional Officer (RDO) in charge of the headquarters is the convener of DEC. The DEC shall be met at least once in three months.

As per G.O (Rt) No.133/2024/RD dated 13.06.2024 and SRO No.518/2024, the District Expert Committee of all 14 Districts in the State was reconstituted.

## 1.3.2.1 Powers and Functions of the District Expert Committee (DEC)

The District Expert Committee (DEC) has the following statutory powers and functions as per Section 9 of Kerala Protection of River Banks and Regulations on Removal of Sand Act - 2001.

- (a) To identify the Kadavu or riverbank in a district in which; sand removal may be permitted;
- (b) To fix the total quantity of sand that can be removed from a Kadavu or river bank giving due regard to the guidelines of expert agencies like the National Centre for Earth Science Studies and Centre for Water Resources Development and Management or other agencies in the sector, as may be specified by the Government from time to time;
- (c) To control the transportation of sand from a Kadavu or river bank to another area;
- (d) To close a Kadavu or river bank opened for sand removal;
- (e) To ensure the protection of river banks and keep them free from encroachment

- (f) To consider the opinion of the Kadavu Committee and take suitable measures to achieve the objectives of KPRBRRSA-2001.
- (g) To ensure that the Kadavu Committees of the District are performing their powers and functions conferred on them by this Act;
- (h) To advise the Government on the measures to protect the biophysical environmental system of the river banks;
- (i) To recommend to the Government the necessity to ban sand removal from any river or Kadavu during any season of the year;
- (j) To carry out the Directions given by the Government, from time to time;
- (k) To exercise such other powers and perform such other duties as are conferred on it by this Act and rules made thereunder;
- (1) To advise on any other matter to carry out the provisions of KPRBRRSA-2001.

#### 1.3.3 Kadavu Committee (KC)

The Kadavu Committees are the panchayat level statutory committees to control and monitor sand mining, functions as per Section 4 of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001 with the following members.

- (a) The President of the Grama Panchayat or the Chairman/Chairperson of the Municipality of the concerned Kudavu-Ex-officio;
- (b) The Secretary of the Grama Panchayat or the Secretary of the Municipality of the area- Exofficio,
- (c) The Assistant Labour Officer of the area-Ex-officio;
- (d)The Grama Panchayat Member or the Municipal Councillor of the area-Ex-officio;
- (e) The Assistant Engineer of Irrigation Department having jurisdiction in the area-Ex officio;
- (f) The Assistant Engineer, (Roads and Bridges) of the Public Works Department having jurisdiction in the area-Ex-officio;
- (g)The Assistant Engineer of the Kerala Water Authority having jurisdiction in the area-Exofficio;
- (h) The Village Officer having jurisdiction in the area-Ex-officio;
- (i) Three Environmentalists to be nominated by the District Collector.
- (j) Three persons to be nominated by the District Collector from among the registered organizations of sand-removing workers of the said area.

The President of the concerned Grama Panchayat or the Chairman/Chairperson of the Municipality is the Chairman of the Kadavu Committee and the Secretary of the Grama Panchayat or Municipality shall be the Convenor of the Kadavu Committee.

## 1.3.3.1 Powers and Functions of the Kadavu Committee (KC)

The Kadavu Committees have the following powers and functions as per Section 11 of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001

- (a) The suitability of the Kadavu or river bank for sand removal;
- (b) The quantity of sand that may be removed from a particular Kadavu;
- (c) The additional measures to be taken for protection of the Kadavu or river bank;
- (d) The necessity to ban sand removal during any season of the year;
- (e) To recommend to the Grama Panchayats and the Municipalities for publication of list of country boats used for and labourers engaged in sand removal operations;
- (f) To carry out the instructions issued by the Government and the District Expert Committees, from time to time;
- (g) Advise on any other matter to carry out the provisions of KPRBRRSA -2001

## 1.3.4 Land Revenue Commissioner (LRC)

Land Revenue Commissioner (LRC) is the Authorized Officer to exercise overall supervision of the implementation of the provisions of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001 and Rules 2002. LRC is assisted by an officer, not below the rank of Joint Land Revenue Commissioner entrusted by the Government for the purpose.

## 1.4 General Conditions for the Sand Removal Operations in a Kadavu

Following general conditions are stipulated for the removal of sand from a Kadavu in Section 12 of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001

- (1) The Grama Panchayat or the Municipality concerned shall, before carrying out the sand removal operation obtain passes from the Geology Department which shall issue them on the recommendation of the District Expert Committee for a period of one month in advance, on payment of royalty as provided for in the law applicable for the payment of royalty.
- (2)No sand removal operation shall be carried out in a Kadavu before 7 a.m. and after 4 p.m.
- (3) The Grama Panchayat or Municipality concerned shall subject to the other provisions of this Act and the rules made thereunder, make necessary arrangements to carry out the sand removal operations.

- (4)Removal of sand shall be permitted only from the riverbed and no sand removal operation shall be done within 15 meters of the river bank.
- (5)No sand removal operation shall be carried out within a distance of 500 meters from any bridge or any irrigation project or pumping station of water supply projects or check dams or from their retaining wall or the venue of any religious or cultural activities conducted on river bank or the sandbank in river or in part of the river.
- (6) The vehicle for loading sand shall be parked at a distance of at least 25 meters from the river bank, and no vehicle shall be brought to the river bank for loading,
- (7) No sand removal shall be done in a Kadavu or riverbank in excess of the quantity fixed by the District Expert Committee.
- (8)No 'Kollivala' pole scooping or any mechanized method shall be carried out in the sand removal operation.
- (9)No sand removal shall be done where there is likelihood of saline water mixing with river water
- (10) No sand removal shall be done in a river or in any river bank where Government have expressly prohibited the same by general or special order.
- (11) The sand removal operations in a Kadavu and transportation of such sand shall be carried out, only subject to such conditions and restrictions, as may be prescribed.

#### 1.5 Squad Activity to Prevent Illegal Sand Mining

Taluk Level Special Squads function in all taluks of Kerala and they monitor illegal sand mining 24x7 at the taluk level. There is Sub-Division Level Squad also engaged in preventing illegal mining activities. Station House Officers (SHOs) of the Police Department are vigilant against illegal sand mining activities in their jurisdiction. Vehicles used for illegal transportation of sand are being taken into custody by the squad concerned.

### Chapter 2

## Sand Auditing

The procedure to evaluate the process of sand mining in a river or part of the river after a specific period of mining to maintain the overall environmental quality of the river is Sand Auditing. The objectives of the work are: (a) To minimize the negative impacts of sand mining, (b) To maximize the health and functions of the river. Sand Auditing is a mandatory scientific exercise to be conducted in rivers once in three years as per Section 29 of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001 and Rule 30 of KPRBRRS Rules-2002. This chapter covers the methodology adopted for conducting Sand Auditing and its current status.

#### 2.1 Selection of River Stretch for Sand Auditing

- i) MoEFCC Sustainable Sand Mining Management Guideline 2016 restricting the river width leaving a distance of 3 m from the river bank or 10% width of the river whichever is less for mining (p.15) shall not bode well for the Kerala rivers, as most of the rivers in Kerala have steep to vertical river banks which are unstable.
- ii) Water spread area in the river is also varying in the summer and rainy seasons.
- iii) Kerala Protection of River Banks and Regulation of Removal of Sand Act, 2001 states that sand deposits within 15 m from the riverbank should not be mined (Section 12(4))
- iv) In order to maintain the river bank stability of the reasonable slope, 8-10 m distance, concomitant to the river bank height, toward the river from either bank has to be left untouched without mining. Hence, a minimum river width of 40 m is suggested as suitable for sand mining stretches.
- v) River stretch falling within the cadastral limit with a minimum width of 40 m (bank to bank) and exhibiting a depositional morphology but excluding forest lands and Coastal Regulation Zone (CRZ) has been identified suitable for sand auditing.

#### 2.2 Three Phases in Sand Auditing

Phase I - Resource estimation - A realistic estimation of the sand resource in a given stretch

Phase II- Resource allocation - Sustainable level of sand mining Phase

III- Performance evaluation - Evaluation of the performance of mining activities during the period of auditing

### 2.2.1 Phase I - Resource Estimation

- Mapping of the river channel and associated natural/physical features (riparian vegetation, sand bars, pools, eroded banks) and manmade structures (bridges, protective embankments, dams) on a suitable scale. This aspect is already covered during the river bank mapping.
- 2) Division of the river channel into segments based on natural and administrative considerations. Natural consideration means the identification of the segment of the river channel where sand deposits are likely to be seen. It should exclude the swift-flowing mountainous segments and segments with continuous rocky bottom. The segments of the stream with significant tidal influence should also be avoided to prevent saline water ingress.
- 3) Estimation of the sand resource in the river channel using suitable methods -pitting, coring, and spiking (shallow seismic surveys in river stretch with sufficient depth and width to run the equipment, resistivity surveys in dry river beds, etc. are not suggested as it needs a higher level of technical input)
- 4) Field surveys for sand auditing should be carried out during the dry season (February May).
- 5) Take a cross-section across the river at an interval of two times the width of the river or 100 m, whichever is less using a leveling equipment (Dumpy level, Auto Level, Theodolite, Total station, etc.) from a permanent Bench Mark (BM).
- 6) Every cross-section must be surveyed between two documented endpoints from the permanent Bench Mark (BM). GPS reading of both endpoints must be recorded. Set back a distance of 3m or 10% of the width of the river whichever is more on either bank will be left intact. All the elevations of the cross-section including the setback points should be referenced to Bench Mark (BM).
- 7) The interval between adjacent sand depth probing points within a cross-section should be 10 m or less depending on the size and morphology of sand accumulation in the river segment under investigation. A minimum of five intersection points has to be ensured in each cross-section.
- 8) Cross-sections should also be taken at the boundary of local bodies and Kadavus.
- 9) BenchMark (BM) of every cross-section should be permanent structures/permanently documented sites and it should not be any temporary objects like trees, rocks, etc. In the absence of permanent structures, new stones may be erected at least every 200m on one of the banks and GPS reading of the point should be given. BM location should be documented with

- of influence). Adding up the segment-wise volumes gives the resource for the entire river/Panchayat.
  - 16) If the variation in the volume of sand between adjacent cross-sections is more than 50 %, cross-sections have to be taken in between. An in-between cross-section is justified due to the greater variation in the sand between adjacent cross-sections.
  - 17) The volume of sand available at each cross-section from above summer water level, up to 1m depth, up to 2 m depth from summer water needs to be computed separately.
  - 18) Deduct the sand deposit available in prohibited areas mentioned in Box-1.
  - 19) Cadastral map showing the river channel and adjacent plots, roads, village boundary, panchayat boundary, cross-section location, BM location, significant landmarks, existing sand mining kadavus, bathing ghats, bridges, check dams, regulators, pumping stations, water intake points, sand deposits, ecologically sensitive areas, sites of cultural/religious significance and sand mining proposed sites should be prepared and attached with the sand audit report.

# Box-1 Prohibited areas as per the Kerala Protection of River Banks and Regulation of Removal of Sand Act, 2001 & MoEFCC Güidelines on Sustainable Sand Mining, 2016

- 1. No sand removal operation shall be done within 15 m of the river bank
- 2. No sand removal operation shall be done within a distance of 500 m from any bridges or any irrigation project or pumping station of water supply projects or check dams or from their retaining wall or the venue of any religious or cultural activities conducted on the river bank or the sand bank in river or in part of the river.
- 3. No sand removal shall be done where there is likelihood of saline water mixing with river water.
- 4. No sand removal shall be done in a river or in any river bank where Government have expressly prohibited the same by general or special order.
- 5. Notified biological hot spots and sensitive areas
- 6. Reaches with placers and other economic minerals
- 7. River reaches critically affected by bank sliding/slumping/bank erosion
- 8. Any other reach that need protection as decided by experts

Latitude and Longitude, position on the river bank, BM number, survey number, village name, and panchayat, photograph of both the BMs and cross-section site should also be attached. Elevation of the point/structure used for BM with respect to the ground level should also be clearly indicated. The top of survey stones in adjacent survey plots can be used as BM for taking cross-sections. BM level should be linked to MSL. A connection between BMs should be established through fly levels in the field.

- 10) The deepest point in every cross-section (Thalweg) should be measured and indicated in the illustration. A longitudinal profile connecting the Thalweg of entire cross-sections needs to be attached with the sand audit report.
- 11) Ascertain the summer water level in the river for each cross-section after linking (the water level of the river in the cross-section) with the groundwater level in the nearby/surrounding well/wells as far as possible. The depth/redline of sand extraction is fixed as follows: (a) If the lean summer water table in the nearby wells is at par or below the lean season water level in the river channel, then the water level in the river is deemed as the redline., (b) If the lean summer water table in the nearby wells is above the lean season water level in the river channel, the water level in the wells is deemed as the redline. In areas where canal water recharges the wells, these criteria need to be applied with appropriate modification. Latitude and longitude of the wells along with photograph and survey number/house number must be documented.
- 12) Note the thickness of the sand bed at each point by pitting, coring or spiking. The thickness of the sand bed up to 2 m depth from the summer level is to be obtained for computational purposes. However, actual river bed character and composition need to be recorded for every cross-section without fail. Depth up to 2 m has been fixed for computational purposes in view of the very precarious sand availability in Kerala Rivers.
- 13) Estimation of the mineable quantity of sand in the river channel. The mineable quantity of sand means the resource up to the redline (Point 11).
- 14) The length of the zone of influence of each cross-section is the sum of half the distance between the previous cross-section and the subsequent cross-section. eg zone of influence of cross-section no 31 is the sum of half the distance between 31 & 30 and 31& 32.
- 15) Estimate the volume of sand up to 2 m from the water level in the river during lean flow for each segment (multiply the cross-sectional area of sand in each cross-section with the length

11	Muvattupuzha	Ernakulam	G O (MS) No. 490/15/RD 23.09.2015
12	Periyar	Idukki & Ernakulam	G O (MS) No. 232/15/RD 06.06.2015
13	Chalakudy	Thrissur	G.O (Ms) No. 111/17/RD 10.04.2017
14	Karuvannur	Thrissur	G O (MS) No. 488/15/RD 23.09.2015
15	Kechery	Thrissur	G O (Rt) No. 1471/2022/RD 31.03.2022
16A	Bharatapuzha Stretch-I	Palakkad & Thrissur	G.O (Rt) No.1906/2020/RD 25.05.2020
16B	Bharatapuzha Stretch-II	Palakkad & Thrissur	G.O (Rt) No.2882/2020/RD 16.09.2020
16C	Bharatapuzha Stretch-III	Palakkad & Malappuram	G.O (Rt) No.874/2020/RD 28.02.2020
17	Gayathripuzha	Palakkad	G.O (Rt) No.2978/2020/RD 30.09.2020
18	Kadalundi	Malappuram	G O (MS) No. 226/15/RD 06.06.2015
19	Chaliyar	Malappuram & Kozhikode	G O (MS) No. 114/16/RD 12.02.2016
20	Kuttiyadi	Kozhikode	G O (MS) No. 227/15/RD 06.06.2015
21	Kabani	Wayanad	G O (MS) No. 236/15/RD 06.06.2015
22	Anjarakandy	Kannur	G O (MS) No. 489/15/RD 23.09.2015
23	Perumba	Kannur	G.O (Rt) No.1905/2020/RD 25.05.2020
24	Valapatanam .	Kannur	G.O (Ms) No.431/18/RD 15.11.2018
25	Mahe	Kannur	G.O (MS) No.384/2019/RD 24.12.2019
26	Sreekandapuram	Kannur	G.O (Rt) No.2222/2020/RD 18.06.2020
27	Vallithod	Kannur	G.O (Rt) No.3647/2021/RD 01.11.2021
28	Chandragiri (Part-1)	Kasargod	G O (MS) No. 228/15/RD 06.06.2015
29	Chandragiri (Part-2)	Kasargod	G.O (Rt) No.2223/2020/RD 18.06.2020
30	Uppala	Kasargod	G.O (Rt) No.1183/2020/RD 19.03.2020
31	Mogral	Kasargod	G.O (Rt) No.2851/2020/RD 11.09.2020
32	Shiriya and Yalkana	Kasargod	G.O (Ms) No.2364/19/RD 24.08.2019

## 2.3.1 Post-Flood Sand Auditing

In the context of the massive flood that happened in Kerala in 2018, the Government decided to Sand Audit a repeat of six flood-affected rivers as per G.O (MS) No. 254/2019/RD dated 24.01.2019. Post-flood Sand Audit of 6 flood-affected rivers was completed during 2019-2023 (Table 2).

#### 2.2.2 Phase II - Resources Allocation

Allocating river sand for mining is based on the 'Sustainable Sand Mining Management Guidelines 2016' notified by the Ministry of Environment, Forest and Climate Change, Government of India in 2016.

#### 2.2.3 Phase III - Performance evaluation of sand resource accounting

- Evaluation of the performance of sand mining activities during the period of Sand Auditing for the entire river or part.
- It is based on actual lowering (La) of the river bed with regard to expected lowering (Le) of river bed.
- Ideally, La and Le values must be the same
- When there is un-authorized mining La>Le
- Actual lowering is obtained from cross-section measurements across the river over a period of sand auditing
- The expected river bed lowering is the permitted quantity of sand to be mined divided by the area of the segment.
- Quantity of sand mined without permit =Area x La- permitted quantity y Efforts to restore the balance of the river system

#### 2.3 Present Status of Sand Auditing

Sand Audit of 32 rivers has been completed from 2012 to 2024. Details of rivers and government orders approving the Sand Audit are given in Table 1.

Table 1 List of Rivers in which Sand Audit Completed

Sl No	River	District	Government Order Approving Sand Audit Report
1	Neyyar	Thiruvananthapuram	GO (MS) No. 235/15/RD 06.06.2015
2	Karamana	Thiruvananthapuram	G O (MS) No. 317/16/RD 24.05.2016
3	Vamanapuram	Thiruvananthapuram	G O (MS) No. 234/15/RD 06.06.2015
4	Ithikkara	Kollam	G O (Rt) No. 2043/2023/RD 30.05.2023
5	Kallada	Kollam	G O (MS) No. 230/15/RD 06.06.2015
6	Kulathupuzha	Kollam	G.O. (MS) No. 67/2017/RD 04/03/2017
7	Achankovil	Pathanamthitta	G.O (Ms) No. 350/2017/RD 21.10.2017
8	Pamba	Pathanamthitta	G O (MS) No. 231/15/RD 06.06.2015
9	Manimala	Pathanamthitta & Kottayam	G.O (Rt) No.3749/2020/RD 30.11.2020
10	Meenachil	Kottayam	G O (MS) No. 316/16/RD 24.05.2016

Table 4 List of rivers in which Sand Mining Banned for Three Years

Sl No	River	District	
1	Neyyar	Thiruvananthapuram	
2	Karamana	Thiruvananthapuram	
3	Vamanapuram	Thiruvananthapuram	
4	Ithikkara	Kollam	
5	Kallada	Kollam	
6	Meenachil	Kottayam	
7	Karuvannur	Thrissur	***************************************
8	Chalakudy	Thrissur	
9	Kechery	Thrissur	
10	Gayathripuzha	Palakkad & Thrissur	
11	Kabani	Wayanad	
12	Kuttiyadi	Kozhikode	
13	Vallithode	Kannur	
14	Anjarakandy	Kannur	
15	Chandragiri (Part-I)	Kasargod	

The data generated through Sand Auditing is crucial in preparing District Survey Reports (DSR). Ministry of Environment Forest and Climate Change (MoEF&CC), Government of India has recommended the Auditing of Rivers for DSR preparation as per Enforcement and Monitoring Guidelines on Sand Mining (2020) citing the example of Sand Audit of Rivers conducted in Kerala (EMGSM-2020, page no.15).

Table 2 List of Post-flood Sand Audit Reports Approved by Government

Sl No	River	District	Government Order Approving Sand Audit Report/Remarks
1	Pamba	Pathanamthitta	G O (Rt) No. 1858/2020/RD 25.05.2020
2	Muvattupuzha	Ernakulam & Kottayam	G O (Rt) No. 945/2020/RD 05.03.2020
3	Periyar	Ernakulam & Idukki	G O (Rt) No. 1685/2020/RD 04.05.2020
4	Kadalundi	Malappuram	G O (Rt) No. 2246/2020/RD 22.06.2020
5	Chaliyar	Malappuram & Kozhikode	G O (Rt) No. 794/2020/RD 25.02.2020
6	Ithikkara	Kollam	GO(Rt)No.2043/2023/RD 30.05.2023

## 2.4 Key Recommendations of Sand Audit Reports

Restricted Sand Mining Permitted subject to Environmental Clearance is recommended for the 16 Rivers by Sand Auditing (Table 3). As the mineable sand deposits are not available, sand mining is banned for three years in 15 rivers (Table 4)

Table 3 List of rivers with sand mining potential stretches

SINo	River	District
1	Kulathupuzha	Kollam
2	Achankovil	Pathanamthitta
3	Pamba	Pathanamthitta
4	Manimala	Pathanamthitt & Kottayam
5	Periyar	Idukki & Ernakulam
6	Muvattupuzha	Ernakulam & Kottayam
7A	Bharatapuzha Stretch-I	Palakkad & Thrissur
7B	Bharatapuzha Stretch-II	Palakkad & Thrissur
7C	Bharatapuzha Stretch-III	Palakkad & Malappuram
8	Kadalundi	Malappuram
9	Chaliyar	Malappuram & Kozhikode
10	Perumba	Kannur
11	Valapatanam	Kannur
12	Sreekandapuram	Kannur
13	Mahe	Kannur
14	Uppala	Kasargod
15	Mogral	Kasargod
16	Shiriya-Yalkana	Kasargod
17	Chandragiri (Part-II)	Kasargod

regard. The draft DSRs submitted by CSIR-NIIST were published on the website of the District concerned for 30 days for Public Consultation. Newspaper advertisements were given to inform the public about the Public Consultation process and Sub-Divisional Committees were formed comprising (i) Sub-Divisional Magistrate, (ii) Officers from (a) Irrigation Department, (b) State Pollution Control Board, (c) Forest Department, d) Geology or Mining Officer to examine the sand mining potential sites included in the DSR. Revised DSRs thus prepared after the Public Consultation were submitted to SEIAA for approval. DSR of Malappuram, Palakkad, Thrissur, and Kollam Districts were approved by SEIAA (Table 5).

Table 5 Status of DSR Preparation in Kerala

Sl. No	Particulars	No. of Districts	Districts
1	No. of DSRs initiated	11	-
2	No. of DSRs approved by SEIAA	04	Malappuram, Palakkad Thrissur & Kollam
3	No. of DSRs under the consideration of SEIAA	02	Kannur & Kasargod
4	No. of DSRs under Public Consultation and SDC Inspection in the District	02	Pathanamthitta & Ernakulam
5	No. of DSRs with no potential sand mining sites	03	Kozhikode, Kottayam & Idukki

The draft DSRs of the Kannur and Kasargod Districts were evaluated by SEAC and DSR of Pathanamthitta and Ernakulam Districts are under the public consultation phase. The district-wise status of DSR preparation is given in Table 6.

Table 6 District-wise status of DSR Preparation

Sl No.	District	Status of DSR Preparation		
1	Malappuram	<ul> <li>Received SEIAA approval as per Letter No. 3162/A1/2021/SEIAA dated 10.01.2024.</li> <li>Final DSR published on the Website of District &amp; ILDM</li> </ul>		
2	Thrissur	Received SEIAA approval as per Letter No.		

## Chapter 3

# Actions to Control Illegal Sand Mining (2023-2024)

Hon'ble National Green Tribunal, Principal Bench, ND in the Judgment dated 26.02.2021 vide OA No.360/2015, 456, 726/2018 and others, ordered to take strict action against illegal, and unscientific mining of sand in the country. The Tribunal has directed all States/UTs to evolve appropriate comprehensive monitoring mechanisms with designated accountable officers, grievances redressal mechanism, envisaging strict action against violators, including assessment and recovery of compensation for the violators, seizure of vehicles, and review at high levels in the State.

Sand Mining in Kerala is controlled and regulated by the provisions of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001. River sand mining is completely handled by the State Government since 2001 and no portion of the river in the State is leased out to any private parties for sand mining. Sand Mining is done by Kadavu Committees with statutory powers under the supervision of the District Expert Committee (DEC) headed by the District Collector. In this context, the meeting held by the Chief Secretary on 20.04.2021 reviewed the compliance status of the Judgment of Hon'ble NGT in OA No.360/2015, 456, 726/2018, and other cases regarding the illegal and unscientific mining of sand from the rivers. The meeting decided to strengthen the existing system based on the directions of the Hon'ble NGT. The following steps are taken from 1st April 2023 to 31st March 2024.

# 3.1 Preparation of District Survey Report (DSR)

As per the Order of Hon'ble NGT dated 26.02.2021 in OA 360/2015 and connected cases, the District Survey Report (DSR) is to be prepared by the experts accredited by the National Accreditation Board of Education and Training/ Quality Control Council of India (NABET/QCI) in terms of O.M. of MoEF & CC dated 16.03.2010. Verification of DSR by the District Magistrate and evaluation by the SEAC and approval of SEIAA are also necessary.

The Government of Kerala has approved the proposal of CSIR-National Institute of Interdisciplinary Sciences and Technology (CSIR-NIIST), Thiruvananthapuram, the only NABET-accredited institute in Kerala on the mining sector for the preparation of District Survey Report (DSR) as per G.O (Rt) No.694/2022/RD dated 14.02.2022. Accordingly, an M.O.U has been signed between the Commissioner, Land Revenue, and CSIR-NIIST on 20.04.2022 in this

## 3.3 Procedures for Seizure and Release of Vehicles Involved in Illegal Mining

As per Rule 27 of Kerala Protection of River Banks and Regulations on Removal of Sand Rules 2002, the Procedure for confiscation of vehicles used for illegal mining and transporting of sand is as follows:

- (1) The Police or Revenue officials shall seize the vehicle used for transporting sand in violation of the provisions of the KPRBRRSA-2001 and the Rules 2002.
- (2) In the case of seizure of the vehicle under sub-section (1), a mahazar shall be prepared in the presence of two witnesses regarding the vehicle and one copy of the same shall be given to the person possessing the vehicle at the time of seizure and on copy to the District Collector.
- (3) The vehicle may be returned if the owner of the vehicle or the possessor remits an amount towards River Management Fund equal to the price fixed by the District Collector with fine within seven days of seizure.

As per Rule 28 of Kerala Protection of River Banks and Regulations on Removal of Sand Rules 2002, the procedure for the Sale of the vehicle seizèd is as follows:

- (1) The District Collector shall consider every objection submitted within seven days of seizure of any vehicle under Rule 27 and the decision of the District Collector thereon shall be final.
- (2) In the case of sale of the vehicle under sub-section (1), if the fine and amount under subsection (3) of Section 27 of these rules has not been remitted, the District Collector shall sell the vehicle by auction.
- (3) The amount received from the auction under sub-section (2) shall be credited to the River Management Fund after deducting the expenditure of the auction.

As per the Order of NGT dated 26.02.2021 in OA 360/2015 and connected cases, the vehicles, equipment, and excavators seized against illegal sand mining based on clause 1 will be fined as provided below:

1. Vehicles/Equipments/Excavators with showroom value of more than ₹25 lacs and less than 5 years old. – Penalty: ₹4 Lacs.

3	Palakkad	3162/A1/2021/SEIAA dated 10.05.2024.      DSRs under revision before publication.	
4	Kollam		
5	Kasaragod	• Evaluation by SEAC completed (16.04.2024 -	
6	Kannur	18.04.2024) and under Revision with CSIR-NIIST.	
7	Pathanamthitta	Draft DSR under Public Consultation and Inspection of	
8	Ernakulam	Sub-Divisional Committee in the Districts	
9	Kozhikode	Potential sand mining sites are not available as per the	
10	Idukki	draft DSR.	
11	Kottayam		

# 3.2 Designated Officers for the Seizure of Sand, Vehicles, tools, and implements used for illegal sand mining and Penality Provisions:

Section 23 of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001 (KPRBRRSA-2001) designates an officer from the Revenue Department not below the rank of Village Officer or a Police Officer not below the rank of a Station House Officer to seize tools, implements, loading equipment's, vehicles, and other articles used or intended to be used for illegal sand mining, including sand. Based on the direction of Hon'ble NGT, the meeting held by Chief Secretary on 18.02.2022 decided to explore the steps to amend Section 23 of KPRBRRSA-2001 by additionally designating Secretaries of Local Self Governments (LSGs) and Officers of Mining and Geology Department.

As per Section 20 of KPRBRRSA-2001, whoever contravenes any of the provisions of this Act or Rules made thereunder shall, on conviction be punished with imprisonment for a term which may extend to two years or with fine which may extend to twenty-five thousand rupees or with both and in case of continuing contravention with an additional fine which may extend to one thousand rupees for every day during which such contravention continues. Kerala Legislature has amended the above provision of Kerala Protection of River Banks and Regulations on Removal of Act-2001 in 12.12.2022 and increased the penalty amount against illegal sand mining from Rs.25000/- to Rs.5,00,000/- and additional fine amount for continued contravention from Rs.1000/- per day to Rs.5000/- per day.

4	Alappuzha		NIL
5	Kottayam		NIL
6	Idukki		08
7	Ernakulam		NIL
8	Thrissur		10
9	Palakkad		06
0	Malappuram		115
1	Kozhikode	Andrew State of the State of th	16
2	Wayanad		01
3	Kannur		72
4	Kasargod		85
	Total		327

# 3.3.2 Number of Cases Registered against Illegal Sand Mining:

As part of preventing illegal mining and transport of sand, 425 cases were registered in various districts of Kerala from 01.04.2023 to 31.03.2024. The maximum number of cases were registered in Malappuram (222) followed by Kasargod (91), and Kannur (64) Districts (Table 8).

Table 8 Number of Cases Registered against Illegal Sand Mining (01.04.2023 to 31.03.2024)

SI No	Name of District	Number of Cases Registered against Illegal Sand Mining from 01.04.2023 to 31.03.2024
1	Thiruvananthapuram	0
2	Kollam	3
3	Pathanamthitta	1
4	Alappuzha	NIL
5	Kottayam	NIL
6	Idukki	8 8
7	Ernakulam	NIL
8	Thrissur	10

- 2. Vehicles/Equipments/Excavators with showroom value of more than ₹25 lacs and more than 5 years but less than 10 years old. Penalty: ₹3 Lacs
- 3. For the remaining Vehicles older than 10 years/Equipments/ Excavators which are otherwise legally permissible to be operated and not covered by Serial No. 1 and 2. Penalty: ₹2 Lacs

On repetition of the offense by the same vehicle/ equipment, an Order dated 05.04.2019 will be applicable (such vehicle or equipment will be released only on the payment of 50% of the showroom value). The option of release may be available for one month from the date of seizure and thereafter, the vehicles may be confiscated and auctioned. The Government of Kerala has increased the penalty amount against illegal sand mining through Kerala Protection of River Banks and Regulations on Removal of Sand (Amendment) Act-2022 from Rupees Twenty-Five Thousand to Rupees Five Lakh, and the additional fine for the continuous violation, from Rupees Thousand per day to Rupees Five Thousand per day.

The penalty amount collected is remitted to the River Management Fund maintained by District Collectors in Treasury Accounts and is being utilized for the restoration of the river environment as per the provisions of KPRBRRSA-2001 and Rules 2002 and the direction of Hon'ble NGT.

# 3.3.1 Number of Vehicles Seized (01.04.2023 to 31.03.2024):

As part of the enforcement and prevention of illegal sand mining, 327 vehicles were seized from different districts of Kerala from 01.04.2023 to 31.03.2024 (Table 7). The maximum number of vehicles were seized from Malappuram (115) followed by Kasargod (85), and Kannur (72) districts.

Table 7 Number of vehicles seized against illegal transport of Sand (01.04.2023 to 31.03.2024)

Sl No	Name of District	Number of Vehicles Seized from 01.04.2023 to 31.03.2024
1 1	Thiruvananthapuram	NIL
2	Kollam	03
3	Pathanamthitta	11

13	Kannur	39
14	Kasargod	57
	Total	204

## 3.3.4 Amount of Fine Levied Against vehicles used in Illegal Sand Mining:

The amount of fine levied against vehicles used in illegal transport of sand in Kerala from 2023 to 2024 was Rs. 1.96 Crore. The fine amount collected is remitted to the River Management Fund maintained by the District Collector and the same will be utilized for river restoration and riverbank protection activities. The highest amount was collected from Malappuram (Rs.1.14 Crore) followed by Kasargod (40.01 Lakh), and Kannur (29.16 Lakh) Districts (Table 10).

Table 10 Amount of fine levied against vehicles used in illegal sand mining (01.04.2023 to 31.03.2024)

Sl No	Name of District	The amount of fine levied against vehicles seized against illegal sand mining from 01.04.2023 to 31.03.2024
1	Thiruvananthapuram	NIL
2	Kollam	NIL
3	Pathanamthitta	NIL
4	Alappuzha	NIL
5	Kottayam	NIL
6	Idukki	96,600/-
7	Ernakulam	NIL
8	Thrissur	1,74,200/-
9	Palakkad	5,70,500/-
10	Malappuram	1,14,04,844/-
11	Kozhikode	3,26,750/-
12	Wayanad	1,16,300/-
13	Kannur	29,16,000/-
14	Kasargod	40,01,000/-
	Total	1,96,06,194/-

9	Palakkad	NIL
10	Malappuram .	222
11	Kozhikode	25
12	Wayanad	1
13	Kannur	64
14	Kasargod	91
	Total	425

### 3.3.3 Number of Vehicles Released:

Of the vehicles seized against illegal transport of sand over the years, 204 vehicles were released in Kerala after levying a fine amount as per Section 27 of Kerala Protection of River Banks and Regulations on Removal of Sand Act - 2001 during 2023-24. The maximum number of vehicles were released from Malappuram (84) followed by Kasargod (57), and Kannur (39) districts (Table 9).

Table 9 Number of vehicles released after levying penalty (01.04.2023 to 31.03.2024)

Sl No	Name of District	Number of vehicles released from 01.04.2023 to 31.03.2024
1	Thiruvananthapuram	NIL
2	Kollam	NII.
3	Pathanamthitta	1
4	Alappuzha	Nil
5	Kottayam	NIL
6	Idukki	3
7	Ernakulam	NIL
8	Thrissur	5
9	Palakkad	14
10	Malappuram	84
11	Kozhikode	NIL
12	Wayanad	1

# 3.4 Scale of compensation for violations of the polluter pays principle

As per Section 23A of KPRBRRSA-2001, the sand seized shall not, for any reason, be released to any person, and the same shall be subjected to confiscation under sub-section (4). The sand confiscated under Sub-Section (4) shall be sold to Nirmithi Kendra or to 'Kalavara' at such rate, as may be fixed by the Public Works Department from time to time and such amount shall be remitted to the River Management Fund. The Government of Kerala has amended this provision through Kerala Protection of River Banks and Regulations on Removal of Sand (Amendment) Act-2022 as 'the value of the sand confiscated under sub-section (4) shall be fixed by the District Collector as directed by the Government from time to time and shall sell to various institutions or individuals through auction, by following the procedures''.

As per Order of NGT dated 26.02.2021 in OA 360/2015 and connected cases, the Scale of compensation for violations is to be calculated based on the polluter pays principle and not a mere loss of royalty. This requires taking into account the value of the illegally mined material and the cost of restoration of the environment. Computing a Simplified NPV (Net Present Value) for ecological damages approach is recommended by Hon'ble NGT. NPV is the total benefits from the activity of sand mining (as represented by the market value of the extracted amount) that are deducted from the total ecological costs.

No portion of the river is leased out in Kerala, and the mining of sand from the rivers is completely handled and monitored by the State Government. Illegal sand mining reported from the rivers is not from any designated and demarcated Kadavus or authorized sand mining sites. Thus the new norm will be implemented with wider deliberations.

#### 3.4.1 Amount of Fine Collected by the Sale/Auction of Sand Seized

The Sand seized against illegal sand mining will not be released in any case as per Section 23A of Kerala Protection of River Banks and Regulations on Removal of Sand Act-2001. An amount of Rs.9.61 Lakhs was collected through the sale of confiscated sand in Kerala from 2023 to 2024. This amount is remitted to the River Management Fund utilized for river restoration and conservation programmes. The maximum fine amount was collected from Kozhikode (9.22 Lakhs) District (Table 12).

# 3.3.5 Total Penalty Amount Remitted to River Management Fund (RMF)

An amount of Rs 2.056 Crore was remitted to River Management Fund as total penalty amount against illegal sand mining including the fine against vehicles seized (Section 27 of KPRBRRSA-2001) and the fine amount as per Section 20 of KPRBRRSA-2001 during 2023-2024. The maximum penalty amount was received from Malappuram (1.14 Crore) followed by Kasargod (40.01 Lakh), Kannur (29.16 Lakh), Kozhikode (12.49 Lakh), and Palakkad (5.70 Lakh) Districts (Table 11).

Table 11 Total penalty amount remitted to River Management Fund (01.04.2023 to 31.03.2024)

Sl No	Name of District	Total Penalty Amount received as income to River Management Fund for the period from 1.04.2023 to 31.03.2024
1	Thiruvananthapuram	NIL
2	Kollam	NIL
3	Pathanamthitta	NIL
4	Alappuzha	NIL
5	Kottayam	NIL
6	Idukki	96,600/-
7	Ernakulam	22,420/-
8	Thrissur	174,200/-
9	Palakkad	5,70,500/-
10	Malappuram	1,14,04,844/-
11	Kozhikode	12,49,126/-
12	Wayanad	1,33,500/-
13	Kannur	29,16,000/-
14	Kasargod	40, 01,000/-
	Total	2,05,68,190/-

Deputy Commissioner/District Magistrate/Collector with Superintendents of Police and other related senior functionaries (District Forest Officer, District transport officer, Regional officer-SPCBs, Senior Officer of Irrigation Department, District Mining Officer) with one/two independent member nominated by the Commissioner concerned. The independent member shall be retired government official/teacher or ex-serviceman or ex-judiciary member.

The Government of Kerala vide G.O (MS) No.1443/2023/RD dated 1.04.2023 constituted the District Level Task Force to monitor sand mining activities in the districts with the following members:

- 1) District Collector: Chairman
- 2) Core Committee Members:
  - i) Additional District Magistrate: Convener
  - ii) District Police Superintendent
  - iii) Divisional Forest Officer
  - iv) District Panchayat Secretary
  - v) Head, District Pollution Control Board
  - vi) Head, District Fire Force
  - vii) Irrigation Executive Engineer
- 3) Executive Committee Members
  - i) Any Two Tahsildars from the District
  - ii) Any two Panchayat Secretaries of the District
  - iii) Any two Sub-Inspectors of Police of the District
  - iv) Officer from the Social Forestry Department of the District
  - v) Two Environmentalists of the District

District Level Task Force (DLTF) is formed in Malappuram (22.06.2023), Kollam (01.04.2024), Kozhikode (19.08.2023), Kasargod (15.03.2024) and Thiruvananthapuram (26.07.2023) districts.

## 3.6 Enforcement of Monitoring Mechanism and Review by the Chief Secretary:

The existing system of sand mining monitoring and enforcement was reviewed by the Chief Secretary in the high-level meeting held on 14.09.2023 and 05.02.2024. Principal Secretaries of Revenue, Law, Agriculture Departments, Member Secretary (Kerala State

Table 12 Amount of fine collected by the sale/ auction of sand seized

Sl No	Name of District	Amount of fine collected by the sale/ auction of sand seized against illegal sand mining from 01.04.2023 to 31.03.2024
1	Thiruvananthapuram	NIL
2	Kollam	NIL
3	Pathanamthitta	NIL
4	Alappuzha	NIL
5	Kottayam	NIL
6	Idukki	NIL
7	Ernakulam	22,420/-
8	Thrissur	NIL
9	Palakkad	NIL
10	Malappuram	NIL
11	Kozhikode	9,22,376/-
12	Wayanad	17,200/-
13	Kannur	NIL
14	Kasargod	NIL
14	Total	9,61,996/-

# 3.5 Formation of District Level Task Force (DLTF)

As per Section 9(c, d) of KPRBRRSA-2001 District Expert Committee (DEC) comprising officers of Revenue, Police, Water Resource, Hydrology, Mining and Geology, Local Self Government, Labour departments, and nominated environmentalists chaired by District Collector controls the mining and transportation of sand from a Kadavu or river bank to another area in the district. As per Section 11 of KPRBRRS Act-2001 Kadavu Committees shall supervise and monitor all activities of sand removal at the panchayat level.

As per the Order of NGT dated 26.02.2021 in OA 360/2015 and connected cases, State Government shall constitute a District Level Task Force (DLTF) under the Chairmanship of ,

Pollution Control Board), Chief Engineer (Irrigation), Director (Mining and Geology), Member Secretary (KCZMA), Land Revenue Commissioner, Director of Institute of Land and Disaster Management (ILDM), were attended in these review meetings.

A.GEETHA IAS
EXECUTIVE DIRECTOR
ILDM